

FLASH

Factual Lines About Submarine Hazards

Submarine Division of the Naval Safety Center

April – June 2013



Size does matter! Especially when entering a battery well.

Route for Safety's Sake

CO ____ XO ____ NAV ____ ENG ____ CSO ____ SUPPO ____ COB ____ DCA ____ Safety Officer ____

EDMC ____ MDR ____ 3MC ____ CPO Quarters ____ Ship's DCPO ____ 1st LT ____

We at the Naval Safety Center look forward to your questions and feedback.

In the spirit of "**ASK THE FLASH**," we have opened the FLASH up for write-in articles and cartoons. You can find the Naval Safety Center classified web page at <https://www.csp.navy.smil.mil/NSC-SUB> and the Naval Safety Center videos on You Tube at <http://www.youtube.com/user/dsteber1849>

Warnings, Cautions and Notes

The Flash is a newsletter that provides safety-related information to the fleet. This information is a summary of research from selected mishaps and surveys done throughout the force. The data is provided to assist you in **your** mishap prevention program and give advance notice of other safety-related information.

This newsletter is NOT authoritative.

Page	Article Name
1	Picture of the Quarter
2	FLASH Table of Content
3	Firearms Safety
4-5	Fluke Recall
6-7	Lanyards
7	MK-1 Auto CONAX Inflators
8	MK-1 Life Preservers (Cont)
9	Steam Protective Ensembles
10-12	CO2 Extinguisher Parts
12	Naval Safety Center Submarine Division Travel Schedule
13	Effective COMNAVSAFECEN Submarine Safety Advisories
13	COMNAVSAFECEN Submarine Division Contact Information

Farewell
HMC Harris

With 9 August 2013 being my last day at the Naval Safety Center, I want to thank my fellow IDCs, the supply officers, and the safety officers that I had the privilege to work with during my time here. Your hard work on the submarine deckplates and the support you gave me made my job here more enjoyable than I could have ever anticipated. I want to be the first to welcome my relief, HMC Frank Thomas, to the Naval Safety Center.

Firearms Safety

LT Ray

Improper small arms usage and training deficits have resulted in negligent discharges of weapons and death. In 2012, the Navy and Marine Corps team reported 45 negligent discharges (on and off duty). The Navy's negligent discharges trend more off duty, while the Marine Corps occurrences trend to on duty.

The Navy continues to experience small arms issues, not because of weapon malfunction, but because personnel do not use common safety practices and good judgment. In one case, a service member went by himself to a shooting range for target practice. He loaded six rounds of ammunition into the magazine of the gun. However, he thought that he had only loaded five. After firing five rounds, he left the firing line without checking the firearm clear or engaging the safety. He later pulled the trigger discharging a bullet into his foot. This Sailor was inattentive, alone, and not adhering to standard safety practices. This mishap could have been more serious, even fatal. Extreme caution should be used when handling any firearm. Firearms should **ALWAYS** be considered loaded. Small arms safety is not limited to just duty status, it is important to practice safety standards at home and specifically around children. Firearms safety is everyone's responsibility. Commands may download small arms and hunting safety presentations from our website using the following link: <http://www.safetycenter.navy.mil/Presentations/ashore>. Let's work together toward a zero tolerance for negligent discharges and firearms mishaps.

We see hazard reports similar to the above mishap about once a month. Isn't that too frequent? If you think you are an expert, or "that won't happen to me", please stop and reconsider. If you seek additional firearms training, there are many good resources for you to explore. Read your firearms owner's manual. Do a "Google search" for firearms safety. Consult the National Rifle Association or the Civilian Marksmanship Program websites. Take a class through your local firing range.

I found a "Safety System" that works well. It is available through the Civilian Marksmanship Program. The acronym is **MAT** and the system is three simple steps: **Muzzle**. Keep the muzzle pointed in a safe direction at all times. **Action**. Keep the action of the gun open. **Trigger**. Keep your finger straight and off the trigger unless ready to shoot. The gun is an inanimate object without the ability to apply common sense. Only you are responsible for safe gun handling. You must maintain acute situational awareness when you combine a gun and its ammunition. Below are pictures of empty chamber indicators used to indicate the chamber is empty and the action is open.

Additional resources include OPNAVINST 3591.1F (Small Arms Training and Qualification) and NAVADMIN 196/10 Personal Firearms.



Fluke Recall

EMCM(SW/AW) Valdepeña

There continues to be questions concerning the Fluke recall. Here is the message sent out by the Naval Safety Center and some clarifying information.

R 051140Z APR 13 ZYB PSN 913274K26
FM COMNAVSAFECEN NORFOLK VA
TO ALSAFE
BT
UNCLAS
ALSAFE 021/13
SECINFO/U/-//
MSGID/GENADMIN/COMNAVSAFECEN/20/MAR//
SUBJ/FLUKE PRODUCT SAFETY ALERT AND RECALL// POC/PERFETTO,
JOSEPH/CIV/UNIT:COMNAVSAFECEN/NAME:NORFOLK
/TEL:757-444-3520 X7264/TEL:DSN 564-3520 X7264 /EMAIL:JOSEPH.PERFETTO@NAVY.MIL//
GENTEXT/REMARKS/1. IN COOPERATION WITH THE CONSUMER PRODUCTS SAFETY COMMISSION, FLUKE HAS ISSUED
RECALLS FOR FIVE OF ITS PRODUCTS.
2. PER THE FLUKE ANNOUNCEMENT CONSUMERS SHOULD IMMEDIATELY STOP USING THE DEVICES LISTED AND GO
TO [HTTP://WWW.FLUKE.COM/FLUKE/USEN/ SUPPORT/SAFETY/](http://WWW.FLUKE.COM/FLUKE/USEN/SUPPORT/SAFETY/) FOR DETAILS ABOUT THE ITEMS INVOLVED AND THE
SPECIFIC FOLLOW-UP ACTIONS FOR EACH.
3. THE PRODUCTS (FIVE TOTAL):
A. FLUKE 373, 374, 375, AND 376 DIGITAL CLAMP METERS
B. FLUKE 190 SCOPEMETER
C. FLUKE T2 ELECTRICAL TESTER
D. FLUKE 333, 334, 335, 336, AND 337 DIGITAL CLAMP METERS
E. FLUKE 1AC-1 VOLTALERT VOLTAGE TESTER
4. HAZARD IS EXPOSURE TO ELECTRICAL SHOCK, ARC FLASH AND/OR ELECTROCUTION DEPENDING UPON THE
EQUIPMENT AND VOLTAGE INVOLVED. THE VOLTAGE DISPLAYED BY EACH OF THESE DEVICES MAY BE LESS THAN
THE VOLTAGE IN THE ITEM BEING EVALUATED. IN SOME CASES, ZERO VOLTS WILL BE DISPLAYED WHEN A
VOLTAGE IS PRESENT.
5. ACTION: PERSONNEL USING THESE FLUKE PRODUCTS SHOULD STOP USING THEM IMMEDIATELY AND TAKE
FOLLOW-UP ACTIONS AS PRESCRIBED BY FLUKE.
6. ADDITIONAL INFORMATION IS AVAILABLE FROM THE FLUKE WEBSITE:
[HTTP://WWW.FLUKE.COM/FLUKE/USEN/SUPPORT/SAFETY/](http://WWW.FLUKE.COM/FLUKE/USEN/SUPPORT/SAFETY/)

37X Recall

Fluke is voluntarily recalling certain 373, 374, 375 and 376 Digital Clamp Meters that were manufactured between September 1, 2010 and October 31, 2012. The models and serial numbers affected are listed in the table below.

Model Family	Manufacture Dates	Starting Serial No.	Ending Serial No.
Fluke-376	Sep 2010 - Feb 2011	14270001	15909999
Fluke-375	Sep 2010 - Mar 2011	14270001	16379999
Fluke-374	Oct 2010 - Feb 2011	14270001	16079999
Fluke-373	Oct 2010 - Oct 2012	14270001	21950000

Fluke 190 ScopeMeter® Recall

Fluke is voluntarily recalling its 190 Series ScopeMeter®100MHz and 200MHz 4 Channel Hand Held Oscilloscopes that contain firmware version V10.40. This includes all units manufactured between February 5, 2012 and April 3rd 2012 and have a serial number range of 1954xxxx to 2009xxxx, and all units upgraded to firmware version V10.40 after February 5, 2012.

Model Numbers	Description
FLUKE-190-104/xx	SCOPEMETER® 4 CHANNEL 100 MHZ COLOR
FLUKE-190-104/xx/S	SCOPEMETER® 4 CHANNEL 100 MHZ COLOR
FLUKE-190-204/xx	SCOPEMETER® 4 CHANNEL 200 MHZ COLOR
FLUKE-190-204/xx/S	SCOPEMETER® 4 CHANNEL 200 MHZ COLOR
Where xx is 2 letter code defining country or region specific line cord and user language set	

T2 Safety Notice and Recall

If your T2 tester has a serial number of 7351XXXX or higher please stop using this product and return it to Fluke for free repair. Units with lower serial numbers are not affected.

33X Recall

In cooperation with the U.S. Consumer Product Safety Commission, Fluke is voluntarily recalling certain 333, 334, 335, 336 and 337 Digital Clamp Meters that were manufactured between January 29, 2008 and February 27, 2009. The models and serial numbers affected are listed in the table below.

Model Family	Starting Serial No.	Ending Serial No.
Fluke-337 (All models including 337A)	96070000	98890607
Fluke-336 (All models including 336A)	96220000	98900400
Fluke-335 (All models including 335A)	97010000	98860104
Fluke-334 (All models including 334A)	97010000	98870101
Fluke-333 (All models including 333A)	97010000	98880240

1AC Recall

In cooperation with the U.S. Consumer Product Safety Commission, Fluke is voluntarily recalling its Fluke 1AC-I VoltAlert™ voltage tester, a product that was first released for sale on September 29, 2009. The affected model number is listed in the table below. If you own a Fluke 1AC-I (1AC-A1-I), **please stop using it** and send it back to Fluke for a replacement unit. If you are not the primary user of the 1AC-I please pass this notice along to the appropriate people within your organization.

Product marking:	Description:
1AC-AI	FLUKE-1AC-I VoltAlert™ Voltage Tester

You can find more detailed information on the [Fluke website](#). Basically each recall states: please stop using the product and return it to Fluke for free repair, replacement, or upgrade.

Lanyards *FTC/SS Macon*

Many boats in the fleet have struggled getting the appropriate safety lanyards onboard. Although there is an NSN, do not order safety lanyards through supply. Safety lanyards received from the supply chain are not the correct style required for submarine use. The following excerpt about lanyards is taken from NAVSURFWARCENDIV 161233ZDEC11:

D. SAFETY LANYARD (SURFACE SHIP AND SUBMARINES): THIS LANYARD IS A SINGLE LEGGED ROPE TYPE WITH A DYNABRAKE. THE LENGTH OF THE LANYARD SHALL BE NO GREATER THAN 6 FEET. THE DYNABRAKE SHALL BE COVERED BY A NYLON COVERING. PLASTIC COVERING OVER THE DYNABRAKE IS NOT AUTHORIZED.

1. NSN 4240-00-022-2521: MINE SAFETY APPLIANCE PART NUMBER 10119236. MINE SAFETY APPLIANCE PART NUMBER 501195 IS STILL AUTHORIZED BUT CANNOT BE REQUISITIONED.

E. WORKING LANYARDS (SURFACE SHIPS AND SUBMARINES): THIS LANYARD IS A SINGLE LEGGED ROPE TYPE WITH NO DYNABRAKE. THE LENGTH OF THE LANYARD SHALL BE 6 FEET.

1. NSN 4240-00-022-2518: ANY ROPE LANYARD THAT MEETS COMMERICAL STANDARD ANSI Z359.1 OR Z359.3 AND THE CRITERIA IN PARAGRAPH E IS ACCEPTABLE. KNOWN ACCEPTABLE WORKING LANYARDS ARE MINE SAFETY APPLIANCE PART NUMBER 505002 AND DBI/SALA PART NUMBER 1232354. WORKING LANYARDS MADE OF WEBBING ARE NOT ACCEPTABLE.

2. FURTHER INFORMATION ON FALL PROTECTION EQUIPMENT AND PROCEDURES CAN BE FOUND IN NAVAL SHIPS TECHNICAL MANUAL CHAPTER 077 AND ON THE WEB SITE WWW.DCFPNAVYMIL.ORG. SUBMARINES SHALL USE ALLOWANCE EQUIPAGE LISTS 2-330023055-57.

The following picture, as seen at www.dcfpnavymil.org, is the correct safety lanyard for submarine use. You will need to call Mine Safety Appliance, MSA, at 1-800-672-2222 directly to open purchase the lanyards that you need. This is the only authorized method to get the right item right now.



Dyna-Brake Shock Absorbing Safety Lanyard, NSN 4240-00-022-2521, is no longer available using this NSN. Lanyards must be obtained directly from MSA utilizing Part Number 10119236.

Working Lanyards



Working lanyards are a single-legged rope type with no dyna-brake and shall be 6 feet in length. Working lanyards made of webbing are not authorized. Use NSN 4240-00-022-2518 to order.

Life Expectancy of the MK-1 CONAX Inflator *ETC(SS) Dawson*

The AEL for submarine life preservers X-330013101 dated 15 DEC 09 provides the life expectancy of the MK-1 CONAX Inflator:

NOTE 4: THE CONAX AUTO INFLATOR (NSN 1377-01-302-2560) USE BATTERY (NSN 6135-01-372-5191). SERVICE LIFE OF CONAX INFLATOR IS SEVEN YEARS FROM THE DATE IT WAS MANUFACTURED.



Year= 07=2007

Month = L=November

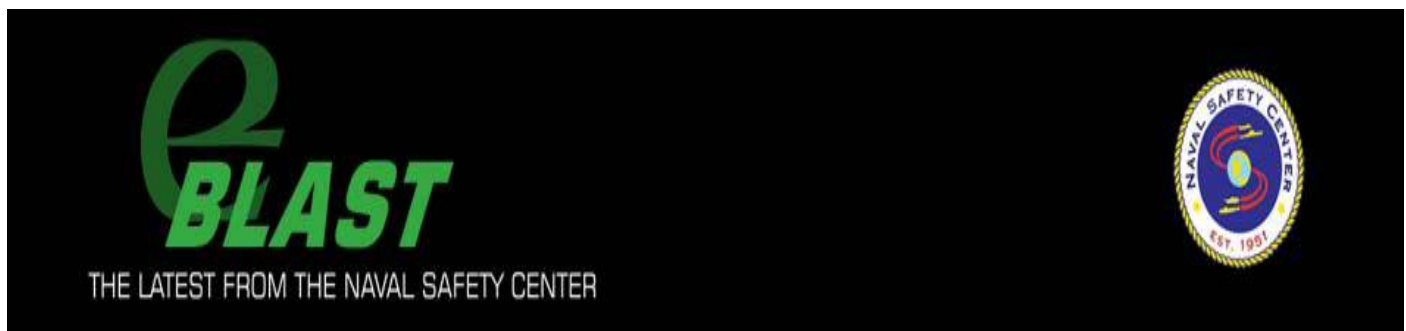
You can determine the date by the lot number. Just after the "CAX" is a two digit number that indicates the year it was made. The letter after the number correlates to the manufactured month (A= Jan, B=Feb, C= March, D= April, E=May, F=June, G=July, H=August, J= Sept, K=Oct, L=Nov, M=Dec. The letter "I" was not used for the month designation).

MK-1 Life Preservers Continued

R 011843Z OCT 12

FM NAVSURFWARCENDIV PANAMA CITY FL

TO COMNAVSURFLANT NORFOLK VA//N41/N42/N43/N47// COMNAVSURFPAC SAN DIEGO CA//N43/N70//
COMNAVAIRLANT NORFOLK VA//N421/N453// COMNAVAIRPAC SAN DIEGO CA//N421/N453/N84/N85//
COMSUBPAC PEARL HARBOR HI//N461/N4111B// COMSUBLANT NORFOLK VA//N402A/N46/N4111// INFO
COMNAVSEASYS COM WASHINGTON DC//05P5/07T// NATTC PENSACOLA FL//40// COMDT COGARD
WASHINGTON DC//G/OCS// NAVSURFWARCEN SHIPSYSENGSTA PHILADELPHIA PA//668// CNATRA CORPUS
CHRISTI TX COMSC WASHINGTON DC SUPSHIP NEWPORT NEWS VA SUPSHIP BATH ME SUPSHIP GROTON
CT SUPSHIP GULF COAST MS COMNAVSAFECEN NORFOLK VA//30/31/32/38// AFLOATRAGRUPAC
YOKOSUKA JA//N00// AFLOATRAGRUMIDPAC PEARL HARBOR HI//N00// COMAFLOATRAGRUPAC SAN DIEGO
CA//N00// COMAFLOATRAGRUMAYPORT FL//N00// COMAFLOATRAGRUMAYPORT FL//N00//
COMAFLOATRAGRUMAYPORT FL//N00// PRESINSURV VIRGINIA BEACH VA CNO WASHINGTON
DC//N75/N76/N78/N77// NAVSURFWARCENDIV PANAMA CITY FL BT UNCLAS SUBJ/DC-PPE ISEA
ADVISORY NOTICE 12-02, MK-1 LIFE PRESERVER CROTCH ST UNCLAS //N03131// SECINFO/U/-//
MSGID/GENADMIN/NAVSURFWARCENDIV PANAMA CITY F// // REF/A/MSGID:MSG/NAVSURFWARCENDIV
PANAMA CITY F/271401Z AUG 2012// REF/B/DESC:DOC/NAVSUP/21OCT1997// NARR/REF A AUTHORIZED
THE USE OF CROTCH STRAPS ON MK-1 LIFE PRESERVERS ON USN SHIPS AND SUBMARINES.
REF B IS NAVAL SUPPLY PROCEDURES P-485 VOLUME 1, AFLOAT SUPPLY REFERENCE.// POC/MS
BRANDI CHESTANG/CIV/UNIT:NSWC PCD CODE E14/NAME: PANAMA CITY FL /TEL:850-235-
5477/TEL:DSN 436-5477// POC/MR MARK CAMPBELL/CIV/UNIT:NAVSEA 05P5/NAME:WASHINGTON DC
/TEL:202-781-3619/TEL:DSN 326-3619// GENTEXT/REMARKS/1. REF A AUTHORIZED THE USE OF
CROTCH STRAPS ON MK-1 LIFE PRESERVERS AND PROVIDED INFORMATION ON ORDERING, INSTALLING,
DONNING THE MK-1 WITH THE CROTCH STRAPS, AND MAINTENANCE FOR THE CROTCH STRAPS.
2. BELOW PROVIDES ADDITIONAL CLARIFICATIONS AND CORRECTIONS TO REF A:
A. CROTCH STRAPS (NSN 1H-0099-LL-H97-1168) ARE AVAILABLE FROM COLEMAN(FORWARD
SLASH)STEARNS INC. SHIPS SHOULD SUBMIT OPEN PURCHASE REQUISITIONS IAW REF B,
PARAGRAPHS 3021 AND 3027 USING COLEMAN(FORWARD SLASH)STEARNS INC. CAGE CODE 63806 AND
PART NUMBER 3000001528. ENSURE TO REPORT DEMAND IAW PARA 3057. COLEMAN(FORWARD
SLASH)STEARNS INC. POC IS CATRINA BAILEY 800-633-7155 OPTION 1,
CBAILEY(AT)COLEMAN.COM. PURCHASE IS BELOW THE GPCP THRESHOLD OF 3000 DOLLARS. IF YOUR
OMMS-NG OR AWWN DOES NOT HAVE THE MOST UP TO DATE AEL DTD SEP 12, SUBMIT A FEEDBACK
REQUEST.
B. REF A LISTED AN INCORRECT URL TO A WEBSITE THAT PROVIDES INFORMATION ON THE CROTCH
STRAPS. THE CORRECT URL IS BELOW AND ITEMS IN PARENTHESES REFER TO SPECIAL CHARACTERS.
TIPS 013 THROUGH 022 ON THE WEBSITE APPLY.
HTTP:(FORWARD SLASH FORWARD SLASH)DCFPNAVY.MIL.ORG(FORWARD SLASH) PERSONNEL(PERCENT
SIGN)20PROTECTION(FORWARD SLASH)FLOATION(PERCENT SIGN)20DEVICES(FORWARD
SLASH)MK1(PERCENT SIGN)20ALL(FORWARD SLASH)MK-1INDEX.HTML 3. TYCOMS ARE REQUESTED TO
REDIRECT TO ALL AFFECTED//



May 2013

To view the newest E Blast posting, visit:

https://www.public.portal.navy.mil/navsafecen/Documents/media/e-blast/E-Blast_May2013.pdf

Steam Protective Ensembles

MMCS(SS) Sisk

The steam protective ensemble consists of multiple components. Proper stowage of the vapor protective coverall (VPC), like any damage control gear, is critical in ensuring the component is ready for emergency use. The VPC is prone to damage if not properly stowed, rendering it useless for wear in a severe steam environment. The best practice I have seen is to stow steam protective ensembles in green flight bags (FSC: 8460; NIIN: 006068366; CANCELLED NIIN: 000950100, 002456693; ITEM NAME: KIT BAG, FLYER'S; \$27.97 ea). These bags are big enough to house the VPC, fire protective gear (FPG), steam hood, steam protective gloves, steam protective boots, the procedures and inventory. See pictures below of flight bags with the associated labeling and markings (pictures courtesy of USS KEY WEST).



Casualty Bag



Training Bag

As per Note 4 of MRC Q-1R, MIP 6641/103-C2, "Fire protective gear/firefighter's coverall associated with steam protective ensemble is to be utilized for steam casualties only."

CO2 Extinguisher Parts

There are some issues with ordering parts for the CO2 extinguisher. Joe Heery at ARDM-4 has taken the time to document the parts received based on NIIN ordered. I have included these findings so DCPO's can get the actual parts they need.

APL 640140005 FIRE EXTINGUISHER 15LB (Supports Extinguisher with Cone Shape Horn)



CLAMP LOOP
NIIN: 01-395-8763
Not Shown on Fig 1 of MRC. This is designed to work with Cone Shape Horns



PLATE, INSTRUCTION
NIIN: 00-656-0875
Only Useable With a Cone Shape Horn



HOSE AND HORN ASSEMBLY
NIIN: 01-377-3467
You receive a Bell Shape Horn; this does not adapt to the instruction plate above



BRACKET, FIRE EXTINGUISHER
NIIN: 00-268-9730



NIIN: 00-372-0854 HOSE ASSEMBLY NON-METALLIC

HOSE ASSEMBLY, NON-METALLIC
NIIN: 00-372-0854



NIIN: 00-372-0871 PIN, STRAIGHT HEADED

PIN, STRAIGHT, HEADED
NIIN: 00-372-0871

APL 649990064 FIRE EXTINGUISHER 15LB

(Supports Extinguisher with Bell Shape Horn)



NIIN: 01-377-7828 HORN AND CLAMP ASSEMBLY

HORN AND CLAMP ASSEMBLY
NIIN: 01-377-7828

As shown in Fig 2 of MRC, you only receive PCs 12, 13, and 14. Pc 11 band is required to install this assembly. APL does have NSN for the band



Here is the band with the Horn and
Clamp Assembly installed



Horn and Clamp Assembly with the Bell Shape Horn installed.



BRACKET, FIRE EXTINGUISHER
NIIN: 01-391-3285
Instructions received with bracket says it is compatible with 15lb CO2 and PKP extinguishers

NOTE: The following items have the same NIIN for both extinguisher APLs:

- a. Hose and Horn Assembly 01-377-3467
- b. Bracket, Fire Extinguisher 00-268-9730
- c. Pin, Straight, Headed 00-372-0871

Naval Safety Center Submarine Division Scheduled 4th QTR FY13 Travel Plans

Groton: 10 Jul -18 Jul 2013 Hawaii: 25 Aug - 30 Aug 2013

Commands needing submarine safety surveys scheduled during 4th QTR FY13:

USS LOUISIANA (SSBN 743)
USS NEVADA (SSBN 733)
USS CALIFORNIA (SSN 781)
USS JEFFERSON CITY (SSN 759)
USS JIMMY CARTER (SSN 23)
USS PROVIDENCE (SSN 719)

USS BOISE (SSN 764)
USS PITTSBURGH (SSN 720)
USS NEW MEXICO (SSN 779)
USS SPRINGFIELD (SSN 761)
USS VIRGINIA (SSN 774)
USS FLORIDA (SSGN 728)

1. The official Navy blog site called "Navy Live" can be viewed at <http://navylive.dodlive.mil/>.



2. The semi-annual publication for the surface, submarine, and dive communities is available on line at <http://www.public.navy.mil/navsafecen/Pages/media/sea-compass/Index.aspx>

<u>Effective COMNAVSAFECEN Submarine Safety Advisories</u>		
2010		
6-10	081904Z Dec 10	Asbestos Removal Protection
2011		
2-11	041532Z Mar 11	Heat Stress Meter Clarification
3-11	071634Z Mar 11	Heat Stress Survey Clarification
5-11	021648Z May 11	Reportable Mishap Clarification and Reporting
7-11	201437Z Oct 11	Safety Survey Requirement Change
9-11	181607Z Nov 11	Afloat Fall Protection
2012		
3-12	231505Z Aug 12	Reporting Afloat Mishaps
4-12	291342Z Aug 12	Replacement of HMUG with NSTM 670
2013		
1-13	081702Z Jan 13	Effective COMNAVSAFECEN Afloat Safety Advisories for Surface Ships and Submarines
2-13	101957Z Jan 13	Electrical Safety During PMS

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<http://www.safetycenter.navy.mil/>

<https://www.csp.navy.smil.mil/NSC-SUB/>

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